Customer No.: 31561 Docket No.: 10767-US-PA

Application No.: 10/708,198

AMENDMENT

To the Claims:

Please amend the claims as follows:

Claim 1. (original) A driving circuit of a current-driven active matrix organic

light emitting diode (AMOLED), comprising:

an AMOLED pixel connected to a current source, the current source being used

to charge/discharge a capacitor connected to a gate of a driving thin film transistor, and a

gray scale of the AMOLED pixel is determined by a magnitude of a current provided by

the current source; and

a pre-charge switch connected to the gate of the driving thin film transistor and a

driving power source, for controlling the driving power source to pre-charge the capacitor

before the current source charges/discharges the capacitor.

Claims 2-5. (cancelled)

Claim 6. (currently amended) The driving circuit of claim 1, wherein the driving

thin film transistor is a P-type thin film transistor, and the AMOLED pixel further

comprises:

an organic light emitting diode (OLED) having an anodefirst terminal and a

eathodesecond terminal, the anodesecond terminal being connected to a negative power

source;

a first switch with one end connected to the anodefirst terminal of the OLED and

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another end connected to a drain of the driving thin film transistor;

a second switch with one end connected to the current source and another end

connected to the drain of the driving thin film transistor; and

a third switch with one end connected to the drain of the driving thin film

transistor and another end connected to the gate of the driving thin film transistor and one

end of the capacitor, and the other end of the capacitor being connected to a positive

power source.

Claim 7. (original) The driving circuit of claim 6, wherein the first, the second,

the third switches and the pre-charge switch are P-type thin film transistors.

Claim 8. (withdrawn) The driving circuit of claim 6, wherein the first, the second,

the third switches and the pre-charge switch are N-type thin film transistors.

Claim 9. (original) The driving circuit of claim 6, wherein the negative power

source is used as the driving power source.

Claim 10. (currently amended) The driving circuit of claim 1, wherein a

pre-charged voltage level across the capacitor is elese to about a threshold voltage of the

thin film transistor.

Claim 11. (original) The driving circuit of claim 1, wherein the driving power

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source comprises two different voltage levels.

Claim 12. (original) A method for driving a current-driven active matrix organic light emitting diode (AMOLED) pixel, wherein an AMOLED pixel is connected to a

current source and a driving power source for charging/discharging a capacitor connected

to a gate of a driving thin film transistor of the AMOLED pixel, the method comprising

the steps of:

pre-charging the capacitor by using the driving power source;

adjusting a gray-scale charging voltage of the capacitor by using the current

source; and

stopping charging/discharging the capacitor through the current source to control

the AMOLED pixel to enter an illumination stage.

Claim 13. (currently amended) The method of claim 12, wherein the capacitor is

pre-charged to a voltage that is elese to about a threshold voltage of the thin film

transistor.

Claim 14. (original) The method of claim 12, wherein the driving power source

comprises two different voltage levels.

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